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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/051,666	01/18/2002	Scott P. Crafton	C152 1150	1166
. 75	90 09/16/2003			
WOMBLE CARLYLE SANDRIDGE & RICE			EXAMINER	
P.O. Box 7037 Atlanta, GA 30357-0037			KASTLER, SCOTT R	
			ART UNIT	PAPER NUMBER
			1742	7
			DATE MAILED: 09/16/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	<b>(</b>					
Office Action Summary	10/051,666	CRAFTON ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication app	Scott Kastler	1742				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1) Responsive to communication(s) filed on	<u> </u>					
2a)  This action is <b>FINAL</b> . 2b)  This	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims  4) M. Claim(a), 1, 21 is lorg panding in the application						
4) Claim(s) 1-31 is/are pending in the application.						
4a) Of the above claim(s) <u>11-22</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10 and 23-31</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>18 January 2002</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on	is: a) ☐ approved b) ☐ disapproved	ved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
<ol> <li>Certified copies of the priority documents</li> </ol>	have been received.					
2. Certified copies of the priority documents	have been received in Application	on No				
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.		(PTO-413) Paper No(s) atent Application (PTO-152)				
Patent and Trademark Office						

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#### Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-10 and 23-31, drawn to an integrated metal processing facility, classified in class 266, subclass 249.
- II. Claims 11-22, drawn to a method of forming and heating a metal casting, classified in class 148, subclass 548.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the process as claimed can be practiced by another, materially different apparatus such as directly transferring the casting from the pouring station to a heat treatment furnace by a basket or carrier in an ambient environment.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

During a telephone conversation with Mr Isaf on 9-10-2003 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-10 and 23-31. Affirmation of this election must be made by applicant in replying to this Office action. Claims 11-22 have been withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-3 are rejected under 35 U.S.C. 102(a) as being anticipated by Pollkoetter.

Pollkoetter teaches a metal processing facility including a pouring station (11), a heat treatment unit (see col. 4 lines 33-40 for example, where a heat treatment station is located at section 57), and an intermediate transfer system including a heat source (54) including heating elements, for maintaining the castings at a "process temperature" as well as a mechanized arm (55) for transferring the castings from the pouring station to the heat treatment station, thereby showing all aspects of the above claims.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-10 and 23-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pollkoetter in view of the ASM Handbook, Vol. 4. As applied to claims 1-3 above, Pollkoetter shows all aspects of the above claims except the use of any particular heat treatment furnace type or arrangement, or the use of a "process temperature control chamber" for adjusting the temperature of the castings prior to entry into the heat treating furnace, although Pollkoetter allows for the use of any desired heat treatment furnace type, including those with pre-heating chambers ("process temperature control chambers"). The ASM handbook, Vol. 4 pages 465-474, teaches that at the time the invention was made, heat treatment furnaces meeting all requirements of the instant claims, including the use of heat treatment baskets for holding the castings (see fig. 4 on page 467 for example), pre-heating chambers (which meet the definition of "process temperature control chambers", see Fig. 9 page 470 for example) as well as the use of any of radiant heating means, burners or convection heaters (see pages 471-473 for example). Applicant has not yet shown any new or unexpected results arising from the use of any particular heat treating furnace arrangement as long as the arrangement is sufficient to heat treat the castings. Because Pollkoetter requires the use of some unspecified type of heat treating furnace, motivation to employ any of the numerous known equivalent heat treating furnace arrangements disclosed by the ASM Handbook, Vol.4, including those with preheating, or process temperature control chambers, would have been a modification obvious to one of ordinary skill in the art at the time the invention was made.

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### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The Making, Shaping and Treating of Steel, 10<sup>th</sup> edition, pp 1267-1276, is also cited as further examples of prior art heat treating furnace arrangements.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Kastler whose telephone number is (703) 308-2506. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (703) 308-3050. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0651.

Scott Kastler Primary Examiner Art Unit 1742

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